

# **WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT**

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN  
AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED  
**\*PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR  
INTENDED USE CHANGED\***

## **OPERATIONS PERMIT**

**PERMIT #** WRP-037507-2020      **APPLICATION DATE:** 05/06/2020      **BLDG. PERMIT#:** RBPR-037494-2020

**PIN:** 1821659770

**RECORDED:** Yes

**TOWNSHIP:** 14 - New Light

**JURISDICTION:** Wake County

**ZONING:** R-40W

**APPLICANT:** Cady Construction Company, Inc  
Cathrine Jones  
847 Wake Forest Business PARK 101

**BUSINESS PHONE:** (919) 562-0000

**HOME PHONE:**

**MOBILE PHONE:** (919) 210-1149

**HD USE:** 101A CONVENTIONAL ONE-FAMILY HOUSE

**EXISTING USE:**

**SITE ADDRESS:** 7804 DOVER HILLS DR

**SUBDIVISION:** CAMBERLY\_ PH 2

**LOT:** 22

**ACRES:** 0.69

**DIRECTIONS:** Take US1 to hwy 98 toward Durham, turn right onto Camp Kanata Rd, go~ 1/2 mile turn right into Camberly, take first left onto Dover Hills Drive, go to end at cul-de -sac homesite is on the right.

Systems defined as either type III-b, III-g with a pump, IV, V or VI, in accordance with the North Carolina administrative code 15A NCAC 18a .1961, table V as adopted by reference in the "Regulations Governing Wastewater Treatment Dispersal Systems in Wake County", requires Wake County Environmental Services to conduct periodic inspections of the system type pursuant to 15A NCAC 18a. 1961 (j). Fees for these inspections will be charged as per the approved Fee Schedule. In addition, all systems are to be operated and maintained as specified in 15A NCAC 18A .1961. This permit is based in part on information provided by the homeowner and/or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The environmental health specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him/her in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

**OPERATION PERMIT VALID FOR:** No Expiration

**INSTALLED BY:** BRANTLEY, CORY - 1036 - IV

**PROPRIETARY SYSTEM:** 0.25 - 25% Reduction (Innovative      **PRETREATMENT SYSTEM:**  
or Accepted)

**SYSTEM TYPE INSTALLED:** III B

**OPERATION PERMIT: STATUS:** Issued

**ISSUED BY:** Jeremy Davis

**ISSUED DATE:** 08/20/2021

**SEPTIC TANK:** David Brantley & Sons - STB-323 - 1250 gallons      **DATE OF MANUFACTURE:** 07/17/2020      **FILTER:** GAG SIM/TECH - STF-110

**GREASE TRAP:**

**DATE OF MANUFACTURE:**

**FILTER:**

**DOSING PUMP TANK:** Brantley - PT-2124 - 1312 gal - 21.5 gal/in

**DATE OF MANUFACTURE:** 09/10/2020

**FILTER:**

**CC1:** 999,819

**ETM1:** 0

**CC2:**

**ETM2:**

**RECIRCULATION TANK:**

**DATE OF MANUFACTURE:**

**CC1:**

**ETM1:**

**CC2:**

**ETM2:**

SEPTIC TANK ELEVATION: 3.75

GREASE TRAP ELEVATION:

DOSING PUMP TANK ELEVATION: 4.00

RECIRCULATION TANK ELEVATION:

DISTRIBUTION DEVICE ELEVATION: 3

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
21	12	135	6.08
21	12	135	7.08
21	12	135	8.08

ACTUAL PRESSURE HEAD: 3

ACTUAL FLOW RATE: 25

ACTUAL DOSE VOLUME: 172

**SPECIFIC OPERATION REQUIREMENTS:**

4 bedroom home, having 480 gpd (Design Flow)

Pump installed: Ashland DP30

ISSUED BY:

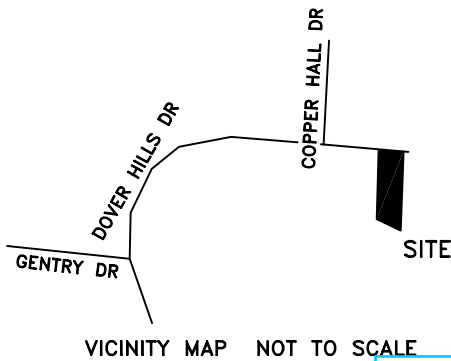
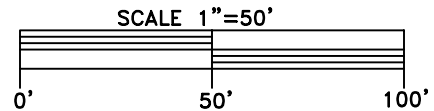


DATE: 08/20/2021

Book of maps 2018 Vol. \_\_\_\_ Page 1487 Book \_\_\_\_ Page \_\_\_\_ County WAKE

Block \_\_\_\_ Lot 22 Subdivision CAMBERLY

EIP=Existing Iron Pipe NIP=New Iron Pipe

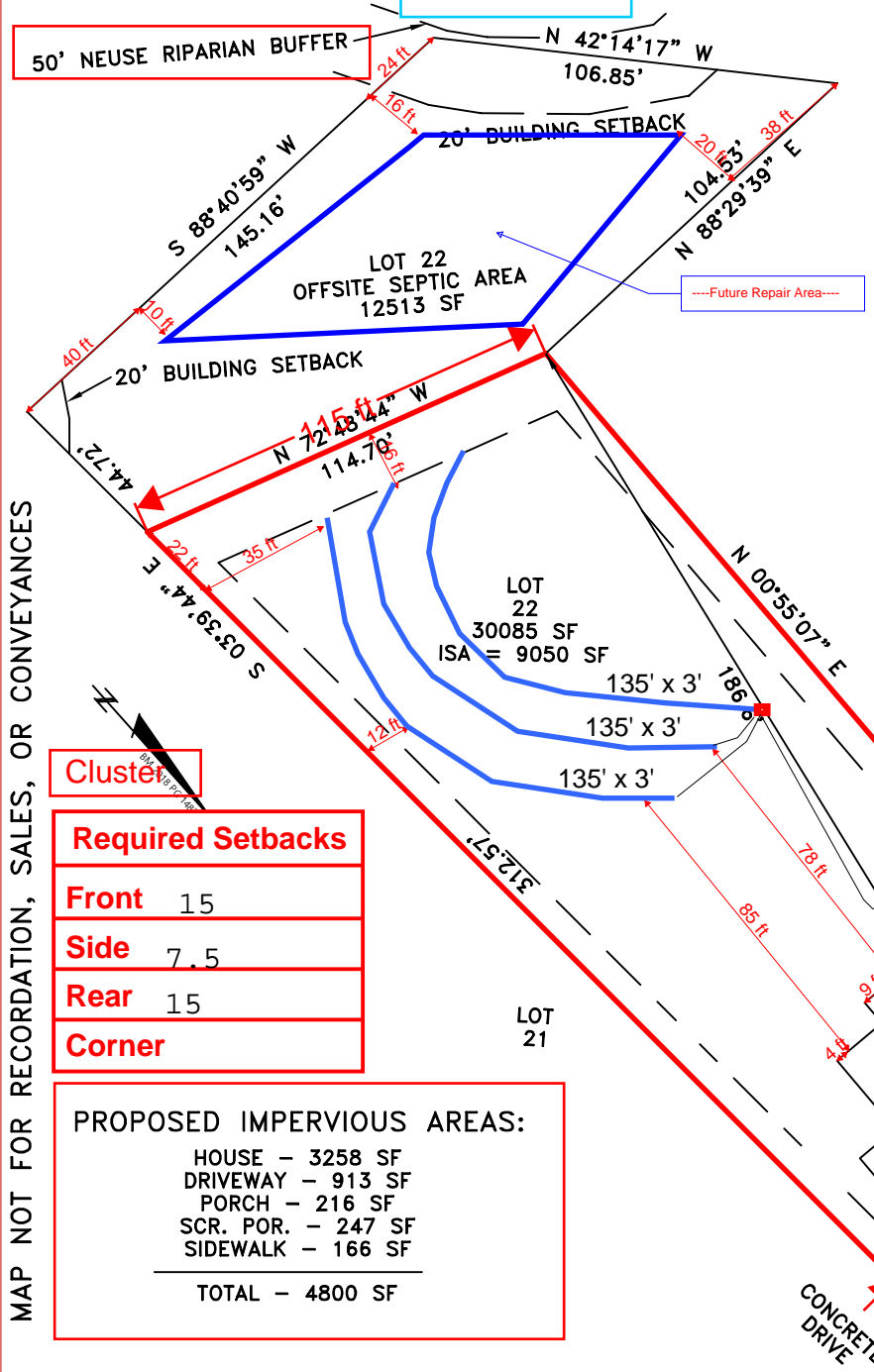
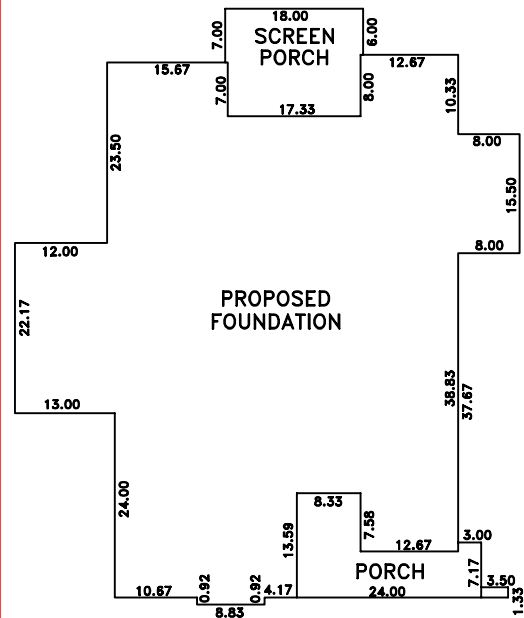


I certify that this map was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book \_\_\_\_ page \_\_\_\_ or other reference source \_\_\_\_); that the boundaries not surveyed are indicated as drawn from information in Book \_\_\_\_ page \_\_\_\_ or other reference source \_\_\_\_; that the ratio of precision or positional accuracy is 1:10,000+; and that this map meets the requirements of The Standards of Practice for Land Surveying in North Carolina (21 NCAC 56. 1600)." This \_\_\_\_ day of \_\_\_\_, 20\_\_.

Jackie Ray Thomason, PLS, L-3076

## AS Built

### INSERT "A"



MAP NOT FOR RECORDATION, SALES, OR CONVEYANCES

Cluster

Required Setbacks	
Front	15
Side	7.5
Rear	15
Corner	

PROPOSED IMPERVIOUS AREAS:	
HOUSE	3258 SF
DRIVEWAY	913 SF
PORCH	216 SF
SCR. POR.	247 SF
SIDEWALK	166 SF
TOTAL	4800 SF

SITE PLAN APPROVED BY  
WAKE COUNTY N.C. P.D.I.  
*Tiya Shields*  
06/29/2020 4:49:32 PM

WAKE COUNTY N.C. P.D.I.  
REVISED SITE PLAN

CURVES				
Id	Radius	Arc Length	Chord	Ch Bear
C1	50.00'	42.09'	40.86'	S 63°42'09" E
C2	25.00'	21.02'	20.41'	S 63°46'54" E

Drawn By JLT Surveyed By JRT Date 04-30-20 Dwg.# PO11515  
REV: 06-23-20

PROPERTY OF:  
CADY CONSTRUCTION CO., INC  
7804 DOVER HILLS DRIVE  
WAKE FOREST, NC 27587

JACK R. THOMASON, PLS  
4969 US HWY 401 SOUTH  
YOUNGSVILLE, NC 27596  
PHONE: 919-556-3307

BOOK: 018656 PAGE: 02383 - 02383

Submitted electronically by "Titchener Law Office" in compliance with North Carolina statutes governing recordable documents and the terms of the submitter agreement with the Wake County Register of Deeds.

## OFF-SITE EASEMENT SEWAGE DISPOSAL SYSTEM MAINTENANCE SCHEDULE

To Be Recorded In The Register Of Deeds Office In Wake County

Owner/Grantor CADY CONSTRUCTION Deedbook and Page 2018 1487  
 PIN No. 1821659770 Date Installed 12/10/2020  
 Subdivision Name COMBERLY SUBD. Lot No. 22  
 System Designed by CENTRAL CAROLINA Installer BRANTLY & SONS  
JASON HOLL

AN ALTERNATIVE OR NON-TRADITIONAL SEWAGE DISPOSAL SYSTEM HAS BEEN INSTALLED ON THIS PROPERTY

The design specifications and locations for alternative sewage disposal systems are specified or authorized in Regulations Governing Wastewater Treatment and Disposal Systems in Wake County effective November 21, 1988, amended effective October 27, 2011

As A Condition Of Issuance Of This Improvements/Operation Permit The Property Owner Hereby Grants The Wake County Department Of Environmental Services A Right Of Access To The System During Regular Working Hours For Purposes Of Monitoring Compliance With State And Local Regulations, Recorded Maintenance Agreements And Certified Operator Compliance

Experience and study have shown that sewage disposal systems located in adjacent offsite easement areas require routine maintenance in order to function satisfactorily. In as much as each system must be individually designed and sited, special maintenance requirements may apply to a specific installation, however, the following maintenance schedule is applicable to most systems. For additional information, technical assistance or if a malfunction of the system occurs, contact the Wake County Department of Environmental Services, Telephone: 919-856-7400.

System Component	Frequency	Maintenance
1. Septic Tank	12 months 1-3 years	Check riser condition (must be accessible from ground surface), excess m/exfiltration, entry of water at riser, and solids accumulation Pump septage.
2. Pump/Dosing Tank	12 months	Check riser conditions (must be accessible from ground surface), excess m/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pumps, controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
3. Supply Lines	12 months	Check for settling, pipe exposure, and leakage
4. Drain Field(s)	1-4 weeks 12 months	Maintain vegetative cover (mow grass and remove weeds and brush). Check for settling, erosion and surfacing of effluent. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
5. Pressure Manifold/ Distribution Box	12 months	Check and reset pressure head, flush sludge from pressure manifold (any discharge sludge and effluent is to be treated with a chlorine solution or lime) Check D-Box level.
6. General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage (gardening) or other soil disturbance over ground absorption field. Practice water conservation to reduce waste water load on system. Do not permit entry of grease and non-domestic waste to system. Use of a garbage disposal is prohibited. Addition of chemical or biological additives has not been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures must be maintained.

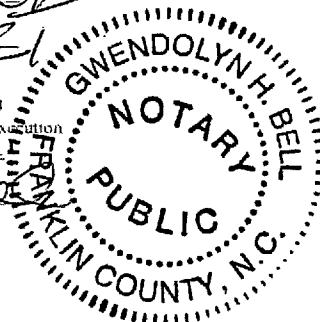
A certified operator is recommended for the life of the system but is not required.

Signature of Property Owner

Date

NORTH CAROLINA Franklin County, I, a Notary Public of the County and State aforesaid, certify that  
George HELLIS IV Owner, Personally appeared before me this day and acknowledged the execution  
 of the foregoing instrument. Witness my hand and official stamp or seal, this 20 day of August, 20 21

My commission expires 3-13-2025 Notary Public Gwendolyn H. Bell  
 WWS 7-6 16



**WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT**

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AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED

**\*PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR  
INTENDED USE CHANGED\***

**CONSTRUCTION AUTHORIZATION PERMIT****PERMIT # WRP-037507-2020****APPLICATION DATE:** 05/06/2020**BLDG. PERMIT#:** RBPR-037494-2020**PIN:** 1821659770**RECORDED:** Yes**TOWNSHIP:** 14 - New Light**JURISDICTION:** Wake County**ZONING:** R-40W

**APPLICANT:** Cady Construction Company, Inc  
847 Wake Forest Business PARK 101  
Wake Forest, NC 27587

**BUSINESS PHONE:** (919) 562-0000**HOME PHONE:****MOBILE PHONE:** (919) 210-1149**HD USE:** 101A CONVENTIONAL ONE-FAMILY HOUSE**EXISTING USE:****SITE ADDRESS:** 7804 DOVER HILLS DR**SUBDIVISION:** CAMBERLY\_ PH 2**LOT:** 22**ACRES:** 0.69

**DIRECTIONS:** Take US1 to hwy 98 toward Durham, turn right onto Camp Kanata Rd, go~ 1/2 mile turn right into Camberly, take first left onto Dover Hills Drive, go to end at cul-de -sac homesite is on the right.

Contractors shall install system on contour. See attached SITE PLAN for wastewater system design and well location. No underground utilities, water lines or sprinklers systems may be located in the original system, or permit areas. A septic tank filter with two risers for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and Operations Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrifications line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

**CONSTRUCTION AUTHORIZATION PERMIT VALID FOR:** Five Years**CONSTRUCTION AUTHORIZATION PERMIT: CA STATUS:** Issued**BY:** Michael Seewald**DATE:** 06/30/2020**CA VALID FOR:** Five Years**DESIGN FLOW:** 480 GALLONS**BASEMENT:** No**BASEMENT FIXTURES:** No**SEPTIC TANK:** 1200 GALLONS**SEPTIC TANK FILTER:** Yes**DOSING PUMP TANK:** 1200 GALLONS**DOSING PUMP TANK FILTER:****GREASE TRAP:****GREASE TRAP FILTER:****RECIRCULATION PUMP TANK:****RECIRCULATION PUMP TANK FILTER:****PROPOSED SYSTEM:** 0.25 - 25% Reduction (Innovative or Accepted)**EXISTING SYSTEM:****DRAINFIELD SQ. FT:** 1,215**AGGREGATE DEPTH:** 12**MAX. TRENCH DEPTH:** 21 INCHES**DISTRIBUTION DEVICE:** PM - Pressure Manifold**TRENCH #:** 3**TRENCH LENGTH:** 135 FEET**TRENCH WIDTH:** 36 INCHES**TOTAL TRENCH LENGTH:** 405 FEET**CENTER SPACING:** 9 FEET**MINIMUM SOIL COVER:** 6 INCHES

**PRETREATMENT:**  
**SUBFIELDS #:** 1  
**PUMP TDH:** 11.02 FEET

**APPROVAL #:**  
**PUMP DESIGN FLOW:** 26.13  
**ZONE VALVE:**

**ASDMS REQUIRED:** Yes  
**P.E. SIGN OFF/ASBUILT REQUIRED:**

**LINE OF CREDIT REQUIRED:**  
**TRIPARTY AGREEMENT REQUIRED:**

**OPERATOR REQUIRED:**

**SPECIFIC CONSTRUCTION AUTHORIZATION REQUIREMENTS:**

- System designed for 4 bedroom home, having 480 gpd (Design Flow).
- Maintenance Agreement (ASDMS) must be recorded with Register of Deeds and submitted to Environmental Services prior to issuance of Operation Permit.
- Future Repair is a Type III B system with a Max Trench depth of 24" and a 0.3 LTAR.
- Site serviced by Community Well water.
- Any deviation from accepted design must be approved by CCSC & Wake County ES prior to system installation.
- If drain line flags removed contact your consultant to re-flag.
- Maintain all required setbacks.
- All property lines must be fully marked at time of install or reinspection required.
- Please contact Michael Seewald 919-710-5389 with any questions prior or during install.

**Issued By:**

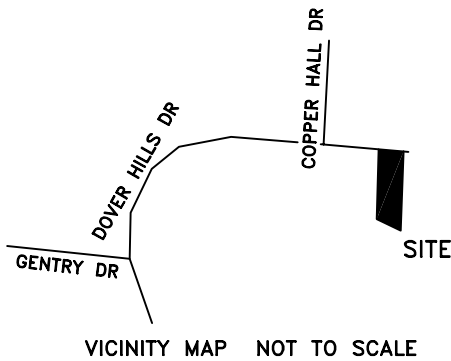
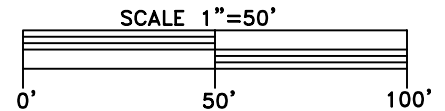


**Date:** 06/30/2020

Book of maps 2018 Vol. — Page 1487 Book — Page — County WAKE

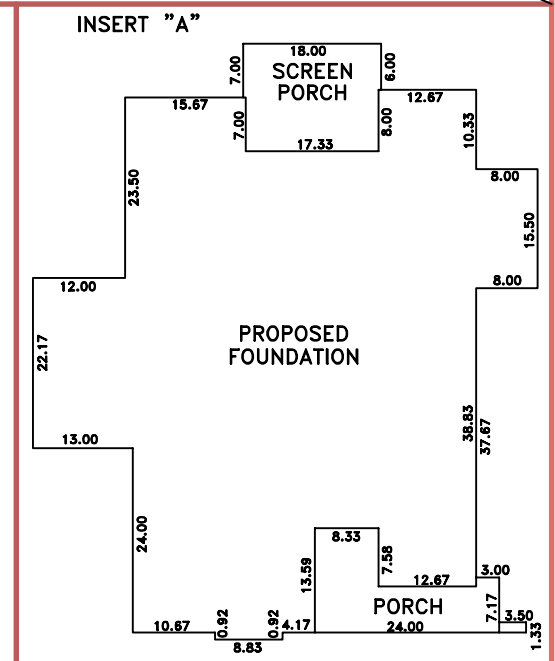
Block      Lot 22 Subdivision CAMBERLY

EIP=Existing Iron Pipe    NIP=New Iron Pipe



I certify that this map was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book \_\_\_\_\_ page \_\_\_\_\_ or other reference source \_\_\_\_\_); that the boundaries not surveyed are indicated as drawn from information in Book \_\_\_\_\_, page \_\_\_\_\_ or other reference source \_\_\_\_\_; that the ratio of precision or positional accuracy is 1:10,000+; and that this map meets the requirements of The Standards of Practice for Land Surveying in North Carolina (21 NCAC 56. 1600)." This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Jackie Ray Thomason, PLS, L-3076



WAKE COUNTY N.C. P.D.I.  
**REVISED SITE PLAN**

MAP NOT FOR RECORDATION, SALES, OR CONVEYANCES

Cluster

## Required Setbacks

**Front** 15

Side 7.5

Rear 15

## Corner

PROPOSED IMPERVIOUS AREAS:

HOUSE - 3258 SF  
DRIVEWAY - 913 SF  
PORCH - 216 SF  
SCR. POR. - 247 SF  
SIDEWALK - 166 SF

**TOTAL - 4800 SF**

CURVES						
Id	Radius	Arc Length	Chord	Ch	Bear	
C1	50.00'	42.09'	40.86'	S 63°42'09"	E	
C2	25.00'	21.02'	20.41'	S 63°46'54"	E	

Drawn By JLT Surveyed By JRT Date 04-30-20 Dwg.# PO11515

REV: 06-23-20

PROPERTY OF:

CADY CONSTRUCTION CO., INC

7804 DOVER HILLS DRIVE

WAKE FOREST, NC 27587

**JACK R. THOMASON, PLS**  
4969 US HWY 401 SOUTH  
YOUNGSVILLE, NC 27596  
PHONE: 919-556-3307





# WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

## 3 TAP PRESSURE MANI-TEE DESIGN

Name: DY CONSTRUCTION COMPANY, I P.I.N. #: 1821659770 D#: RP-037507-2020

Address: 7804 DOVER HILLS DRIVE Subdiv: CAMBERLY PH2 Lot#: 22

# of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.30 gal/day/sq.ft

Septic Tank: 1200 gals Pump Tank: 1200 gals Sq. Foot: 1215 Stone Depth: AS

Number of Taps: 3 Length of Trenches: 405 ft(See Tap Chart for Details)

Depth of Trenches: 21 in Manifold Length: 36 in

Manifold Diameter: 2in sch 40pvc Mani-Tee Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 55 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.02 ft(supply line length + 70' for fittings in pump tank)

Design Head: 3 ft Elevation Head: 6 ft

Total Head: 11.02 ft Pump to Deliver: 26.13 gals/min at 11.02 ft head

Dosing Volume: 174 gals,

Drawdown: 174 gals divided by 20 gals/in = 8.7 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required, see permit details for specifics.

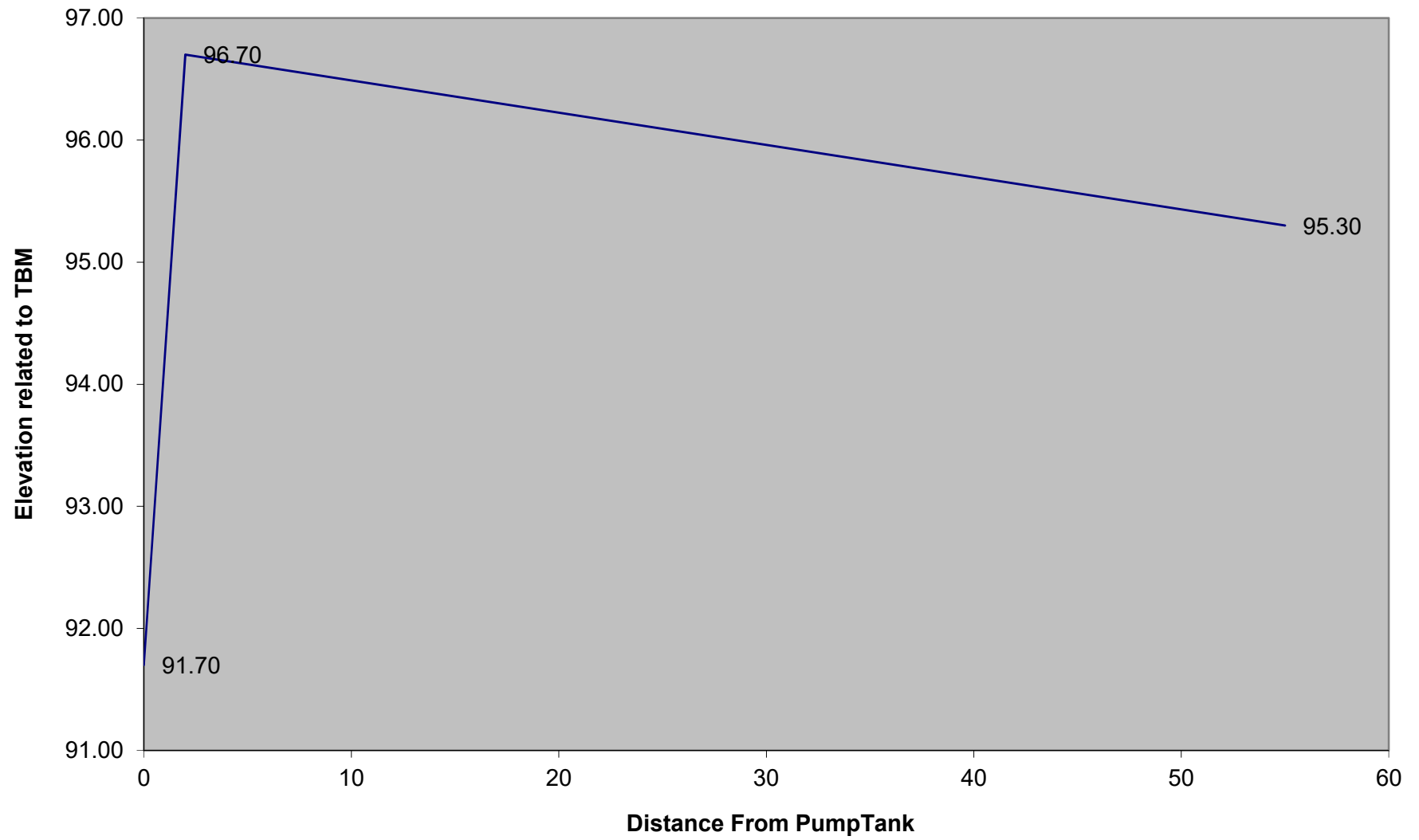
### TAP CHART

Bench Mark		is = 100.00	set at				Design Head:	3	
Pump tank elev.		3.3	96.70	Pump elev.	91.70		Manifold elev.	95.30	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	PURPLE	5.7	94.30	135	1/2in SCH 40	8.71	160.00	405	0.395
2	PINK	6.4	93.60	135	1/2in SCH 40	8.71	160.00	405	0.395
3	BLUE	7.3	92.70	135	1/2in SCH 40	8.71	160.00	405	0.395
		total	feet =	405	gal/min =	26.13		<u>LTAR =</u>	<b>0.30</b>
% of Dose Vol.		66		<u>Des. Flow</u>	480			(ltar + 5%)	0.32
Dose Volume		174		Pump Run=	18.37			(ltar W/ INOV)	0.40
Dose Pump Time		6.65		Tank Gal/IN	20			(ltar + 5%)	0.42
Drawdown in Inches		8.7		Elev. Head	6				
Supply Line Length		55							
Comments:									

### Hydraulic Profile

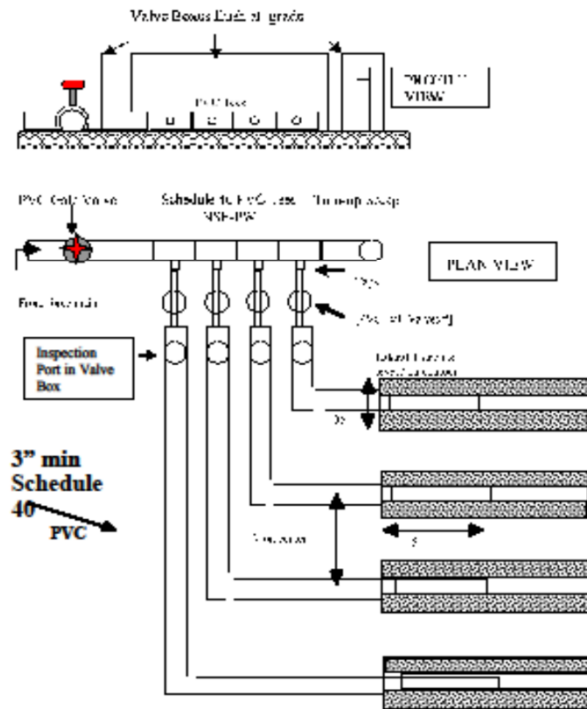
Manifold Elevation	95.30	55
Pump tank elev.	96.70	2
Pump elev.	91.70	0

## Hydraulic Profile



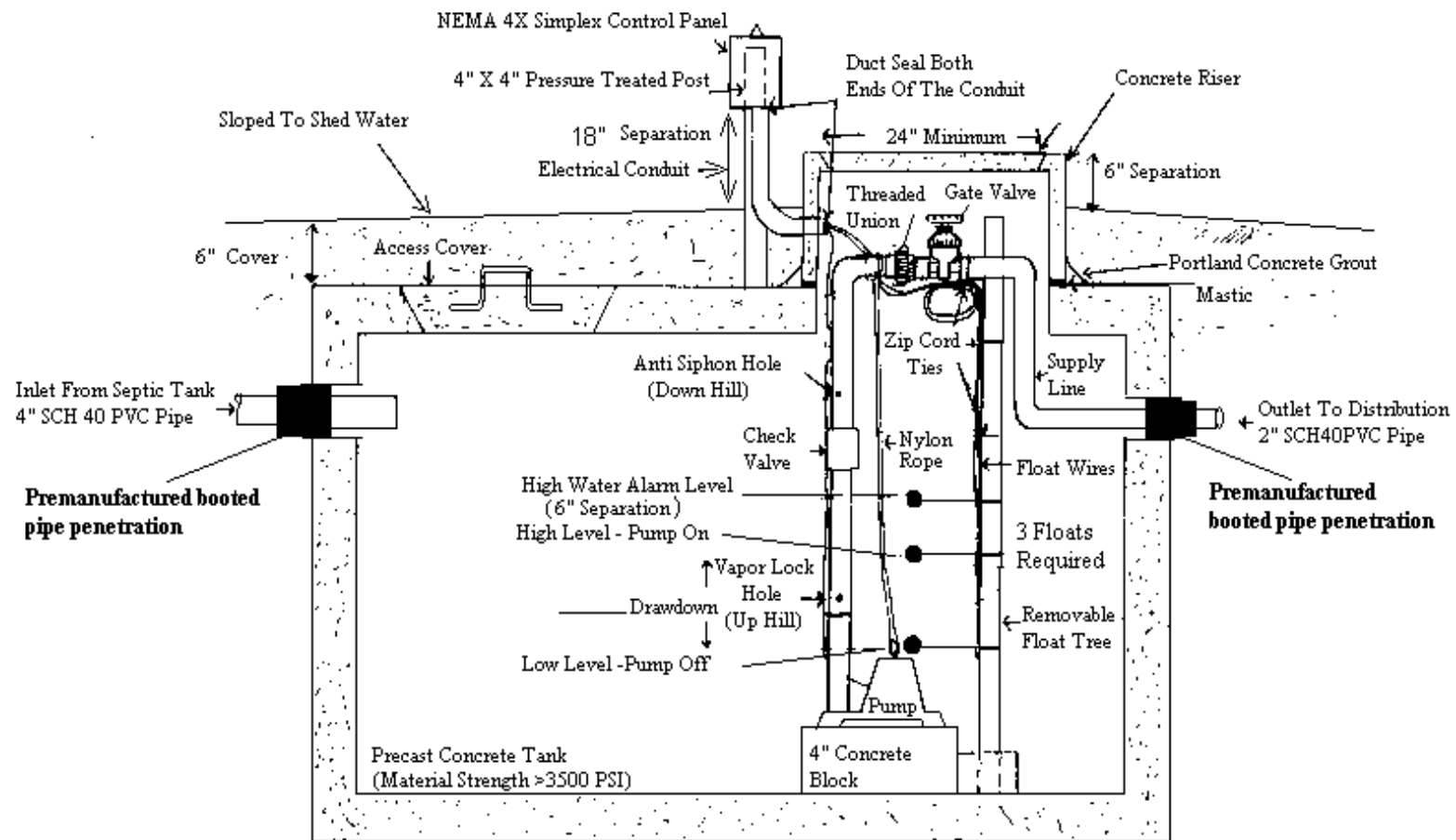
	Line 1	Line 2	Line 3
<b>Taps</b>	1/2in SCH 40	1/2in SCH 40	1/2in SCH 40
<b>Flow</b>	8.71	8.71	8.71

## Wake County Mani-Tee Design



\*\*\*Manifold sizing may need to be altered after installer layout. The installer must layout the system prior to the pre-construction conference\*\*\*

## Wake County Department Of Environmental Services



\_\_\_\_\_ GALLON PUMP TANK

**1200 Gals Pump Tank**

## Minimum Panel Requirements

The following items will be considered the minimum for all pump systems:

1. It must be a NEMA 4X Box.
2. It must use a HOA (Hand, Off, Auto) switch to control the pump. No more use of piggyback plugs!
3. It must have a motor contactor to prevent high voltage electricity in the water at all times.
4. It must have an audible and visual alarm.
5. **All Pressure Manifold and LPP Systems must have an elapsed time meter and cycle counter installed in the panel.**
6. It must have 2 separate power supplies, wired from the fuse panel at the house.
7. All panels must have 2 circuit breakers installed in the panel to allow for disconnecting of power, so that the pump or switches maybe serviced.
8. Panels and pumps are to be wired at the time of our inspection. Power must be supplied by use of generators or from the house temporary meter, if the builder applied for it and has had all required inspections and the temporary meter has been set. **We will no longer inspect any system that has been hot wired from the temporary power pole or jumped through the house wiring without a meter being set.**

## Pressure Manifolds

1. A float tree or hanging floats must be used.
2. A Simplex Control Panel with a Hand - Off - Auto switch and alarm in a NEMA - 4X box is required. See the plans or CA comments for further details on the panel.
3. 2 separate power supplies are needed. Try to look and make sure they have not used a 120V only panel with a 240V pump.
4. The taps and pipes for the taps must be of the same material! If it is a sch80 tap (usually gray plastic) then the tap, pipe and valve (the valve can be sch40pvc if there is an adequate amount of sch80 pipe used) must be constructed of sch80pvc. The same goes for sch40 taps, you cannot use sch80 pieces with the sch40.
5. The taps must go directly to the 3" pipe; no elbows can be used in the tap connections.
6. All of the tap must be the same size or larger. 3/4" pipe cannot have a 1/2" valve, but a 1/2" pipe could have a 3/4" valve, if at there is at least 6" total 1/2" pipe used.
7. Should the wrong size or material be used in the tap itself, the flow to the line can be corrected by using an adequate amount of the proper pipe material and size. The amount of pipe needed to control the flow is dependent on the size pipe/tap. If 1/2" pipe is needed, then at least 6" of total pipe is needed. A 3/4" size requires at least 9" of pipe to be used. A 1" size needs 12" of total pipe length to control the flow.

OFF-SITE EASEMENT SEWAGE DISPOSAL SYSTEM MAINTENANCE SCHEDULE  
To Be Recorded In The Register Of Deed’s Office In Wake County.

Owner/Grantor \_\_\_\_\_ Deedbook and Page \_\_\_\_\_  
PIN No. \_\_\_\_\_ Date Installed \_\_\_\_\_  
Subdivision Name \_\_\_\_\_ Lot No. \_\_\_\_\_  
System Designed by \_\_\_\_\_ Installer \_\_\_\_\_

AN ALTERNATIVE OR NON-TRADITIONAL SEWAGE DISPOSAL SYSTEM HAS BEEN INSTALLED ON THIS PROPERTY. The design specifications and locations for alternative sewage disposal systems are specified or authorized in Regulations Governing Wastewater Treatment and Dispersal Systems in Wake County effective November 21, 1988, amended effective October 27, 2011. As A Condition Of Issuance Of This Improvements/Operation Permit, The Property Owner Hereby Grants The Wake County Department Of Environmental Services A Right Of Access To The System During Regular Working Hours For Purposes Of Monitoring Compliance With State And Local Regulations, Recorded Maintenance Agreements And Certified Operator Compliance. Experience and study have shown that sewage disposal systems located in **adjacent offsite easement areas** require routine maintenance in order to function satisfactorily. In as much as each system must be individually designed and sited, special maintenance requirements may apply to a specific installation; however, the following maintenance schedule is applicable to most systems. For additional information, technical assistance or if a malfunction of the system occurs, contact the Wake County Department of Environmental Services, Telephone: 919-856-7400.

<u>System Component</u>	<u>Frequency</u>	<u>Maintenance</u>
1. Septic Tank	12 months 1-3 years	Check riser condition (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Pump septage.
2. Pump/Dosing Tank	12 months	Check riser conditions (must be accessible from ground surface),excess in/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pump(s), controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
3. Supply lines	12 months	Check for settling, pipe exposure, and leakage.
4. Drain Field(s)	1-4 weeks 12 months	Maintain vegetative cover (mow grass and remove weeds and brush). Check for settling, erosion and surfacing of effluent. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
5. Pressure Manifold/ Distribution Box	12 months	Check and reset pressure head, flush sludge from pressure manifold (any discharg sludge and effluent is to be treated with a chlorine solution or lime). Check D-Box level.
6. General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage(gardening) or other soil disturbance over ground absorption field. Practice water conservation to reduce waste water load on system. Do no permit entry of grease and non-domestic waste to system. Use of a garbage disposal is <u>prohibited</u> . Addition of chemical or biological additives has <u>not</u> been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures must be maintained.

A certified operator is recommended for the life of the system but is not required.

\_\_\_\_\_  
Signature of Property Owner  
\_\_\_\_\_  
Date

NORTH CAROLINA \_\_\_\_\_ County. I, a Notary Public of the County and State aforesaid, certify that \_\_\_\_\_ Owner, Personally appeared before me this day and acknowledged the execution of the foregoing instrument. Witness my hand and official stamp or seal, this \_\_\_\_day of \_\_\_\_\_ 20\_\_\_\_.

My commission expires \_\_\_\_\_ Notary Public \_\_\_\_\_  
WWDS 7/6/16

# **WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT**

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN  
AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED

**\*PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR  
INTENDED USE CHANGED\***

## **IMPROVEMENT PERMIT**

**PERMIT #:** WRP-037507-2020

**APPLICATION DATE:** 05/06/2020

**BLDG. PERMIT #:** RBPR-037494-2020

**PIN:** 1821659770

**RECORDED:** Yes

**TOWNSHIP:** 14 - New Light

**JURISDICTION:** Wake County

**ZONING:** R-40W

**APPLICANT:** Cady Construction Company, Inc  
847 Wake Forest Business PARK 101

**BUSINESS PHONE:** (919) 562-0000

**HOME PHONE:**

**MOBILE PHONE:** (919) 210-1149

**HD USE:** 101A CONVENTIONAL ONE-FAMILY HOUSE

**EXISTING USE:**

**SITE ADDRESS:** 7804 DOVER HILLS DR

**SUBDIVISION:** CAMBERLY\_ PH 2

**LOT:** 22

**ACRES:** 0.69

**DIRECTIONS:** Take US1 to hwy 98 toward Durham, turn right onto Camp Kanata Rd, go~ 1/2 mile turn right into Camberly, take first left onto Dover Hills Drive, go to end at cul-de-sac homesite is on the right.

Permit is subject to revocation if the Site Plan or Plat changes or the intended use changes.

\*Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

**IP VALID FOR:** Five Years AS PER GS 130A-335 (f)

**DESIGNED BY:** CCSC

**SYSTEM LAYOUT:** Private Sector

**SITE CLASSIFICATION:** Provisionally Suitable

**IP STATUS:** Issued

**BY:** Michael Seewald

**DATE:** 06/30/2020

**NUMBER OF BEDROOMS:** 4

**OR TOTAL NUMBER OF OCCUPANTS:** 8

**PERMITTED DESIGN FLOW:** 480 GPD

**BASEMENT:** No

**BASEMENT PLUMBING:** No

**WASTEWATER STRENGTH:** Domestic

**SYSTEM TYPE:** III B

**LTAR:** 0.300

**EXISTING SYSTEM UTILIZED:** No

**PRETREATMENT STRENGTH REQUIRED:** None

**EASEMENT FOR WW SYSTEM ASSOCIATED WITH PARCEL:** Adjacent

**MAXIMUM TRENCH DEPTH:** 21 INCHES

**PUMP REQUIRED:** Yes

**SPECIFIC SYSTEM REQUIREMENTS:** - System designed for 4 bedroom home, having 480 gpd (Design Flow).

- Future Repair is a Type III B system with a Max Trench depth of 24" and a 0.3 LTAR.

- Site serviced by Community Well water.

- No cutting, grading, alterations, or utilities in septic area.

- Maintain all required setbacks.

**ISSUED BY:**

A handwritten signature in black ink, appearing to read "Michael S. Smith". The signature is fluid and cursive, with the first name "Michael" being more prominent than the last name "Smith".

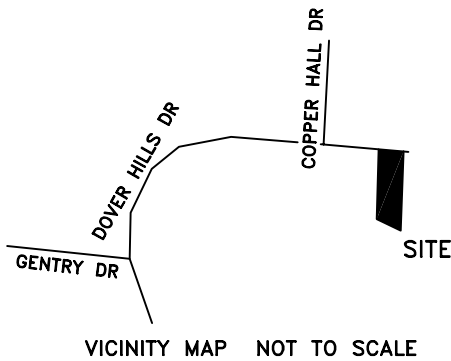
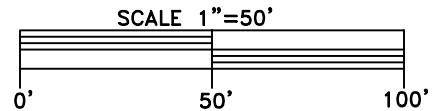
**DATE:** 06/30/2020



Book of maps 2018 Vol. \_\_\_\_ Page 1487 Book \_\_\_\_ Page \_\_\_\_ County WAKE

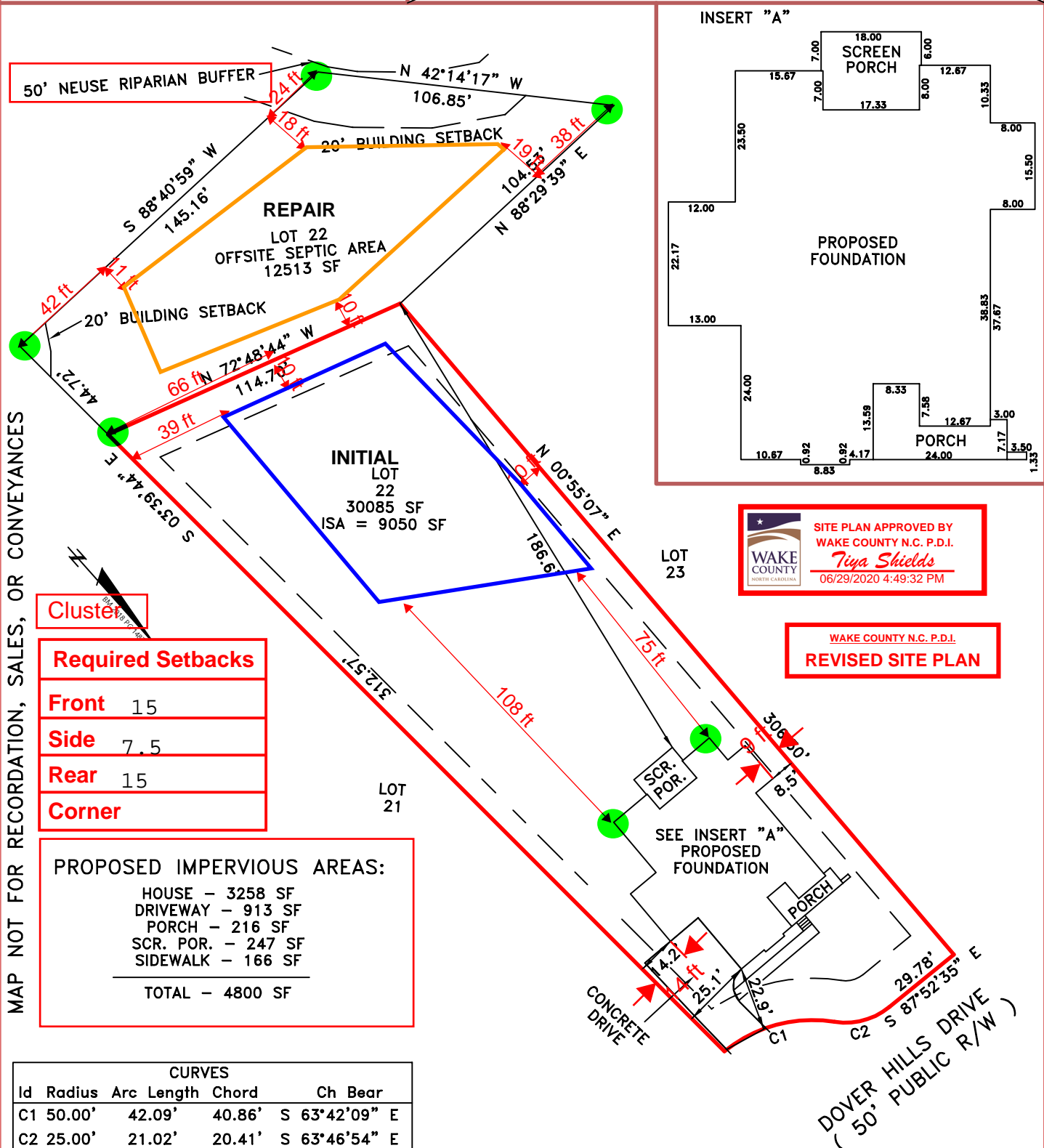
Block \_\_\_\_ Lot 22 Subdivision CAMBERLY

EIP=Existing Iron Pipe NIP=New Iron Pipe



I certify that this map was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book \_\_\_\_ page \_\_\_\_ or other reference source \_\_\_\_); that the boundaries not surveyed are indicated as drawn from information in Book \_\_\_\_ page \_\_\_\_ or other reference source \_\_\_\_; that the ratio of precision or positional accuracy is 1:10,000+; and that this map meets the requirements of The Standards of Practice for Land Surveying in North Carolina (21 NCAC 56. 1600)." This \_\_\_\_ day of \_\_\_\_, 20\_\_.

Jackie Ray Thomason, PLS, L-3076



Cluster

Required Setbacks	
Front	15
Side	7.5
Rear	15
Corner	

PROPOSED IMPERVIOUS AREAS:	
HOUSE	3258 SF
DRIVEWAY	913 SF
PORCH	216 SF
SCR. POR.	247 SF
SIDEWALK	166 SF
TOTAL	4800 SF

CURVES				
Id	Radius	Arc Length	Chord	Ch Bear
C1	50.00'	42.09'	40.86'	S 63°42'09" E
C2	25.00'	21.02'	20.41'	S 63°46'54" E

Drawn By JLT Surveyed By JRT Date 04-30-20 Dwg.# PO11515  
REV: 06-23-20  
PROPERTY OF:  
CADY CONSTRUCTION CO., INC  
7804 DOVER HILLS DRIVE  
WAKE FOREST, NC 27587  
JACK R. THOMASON, PLS  
4969 US HWY 401 SOUTH  
YOUNGSVILLE, NC 27596  
PHONE: 919-556-3307